

ABSTRACT

IMPROVEMENTS APPLIED TO CONTINUOUS LINEAR SQUARE-FITTING MACHINE USED IN THE MILLING PROCESS OF COCONUT ENDOCARP (*Cocos Nucifera L.*), continuous linear square-fitting machine (1), particularly applied to the milling process of coconut endocarps, which were processed by a slicer machine (A), producing threads (F) which are led to the deposit (2) of the square-fitting machine (1) through the rolling conveyor belt (T); square-fitting machine (1) featured by being comprised by a metal structure (3) where a conveyor fixing system (SF) of threads (F) is installed through fixing conveyor chains (4) and a cutting system (SC) by circular saws (5); through the motor reducer set (6) and secondary transmission chains (7), the axes (8) rotate on bearings (9) making the fixing conveyor chains (4), mechanic or manually put into motion, to lead the threads (F) to the cutting system of the circular saws (5); before the tablets (F) passing through the first saw (5a), they are downwards compressed by a set of straps (10) and pulleys (12), guiding said threads to be exactly placed on the square; arrangement which is made possible due to the distribution of teeth (13), positioned in a spaced way and at 90° towards the chains (4).